

# Real impact, made together.

At SJ Group, we deliver innovative, scalable, and adaptable port solutions that drive efficiency, resilience, and sustainability for maritime infrastructure. Through regenerative practices and integrated expertise, we help the ports and maritime sector unlock growth opportunities and thrive in an evolving global landscape.



Explore  
our impact.







### Global Expertise, Local Impact

Our teams work seamlessly across borders to deliver resilient, forward-thinking port and maritime solutions that create positive local impact. By harnessing cutting-edge technology and innovative strategies, we engineer sustainable port infrastructure that meets today's needs while anticipating future demands, ensuring resilience against climate change.



### Limitless Imagination

We are transforming the future of ports and maritime solutions, through the power of limitless imagination. By pushing the boundaries of innovation and leveraging advanced technologies, we deliver visionary, sustainable port infrastructure that meets the evolving needs of the global supply chain while creating lasting value for local communities.



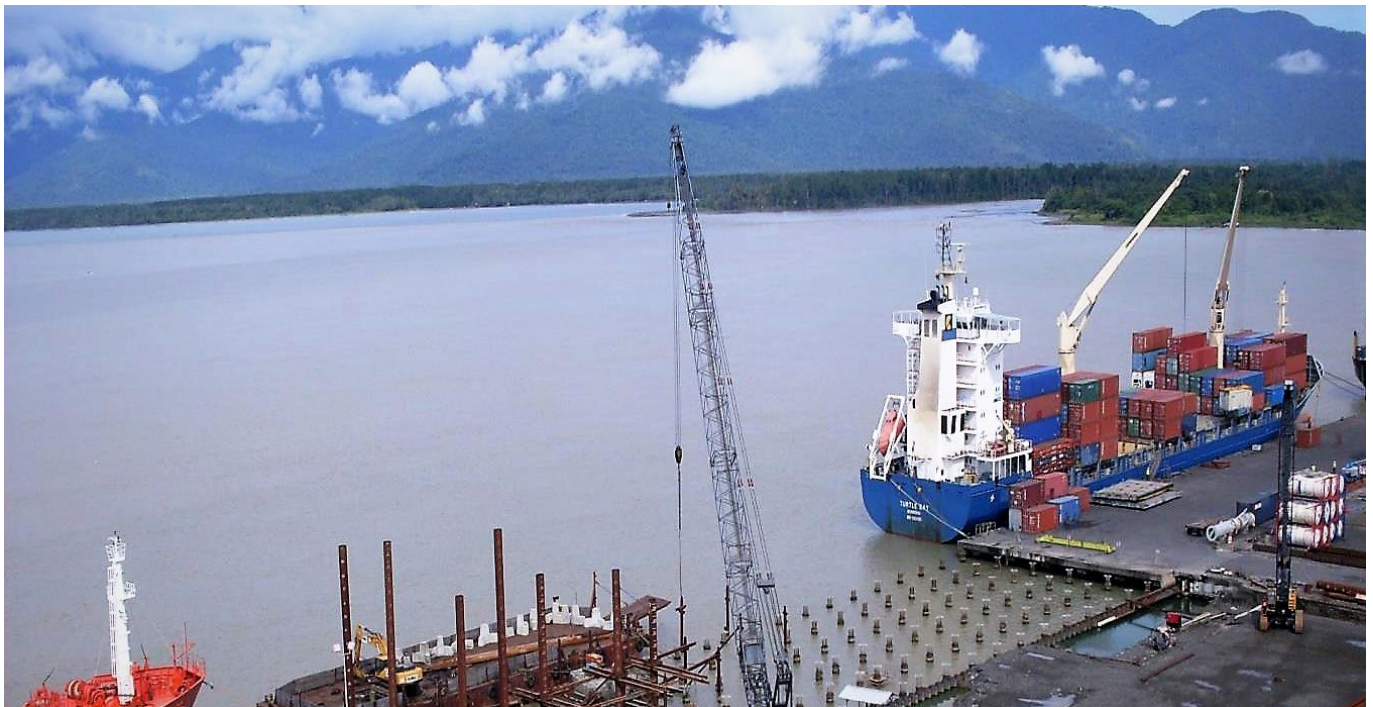
### Solutions at Scale

Ports are highly specialised facilities that play a critical role in the global supply chain. The shipping industry is rapidly evolving as port authorities modernise infrastructure to support deeper berths, larger wharves, smarter processing systems, and new export industries during the transition to net-zero emissions.



### Building a Future Legacy

We design port infrastructure that drives economic growth, minimises environmental impact, and strengthens communities. Our adaptive lifecycle planning integrates smart technologies, sustainable practices, and flexible designs consider contributing to future-proofing ports and maritime for future generations.



Lae Port, Papua New Guinea

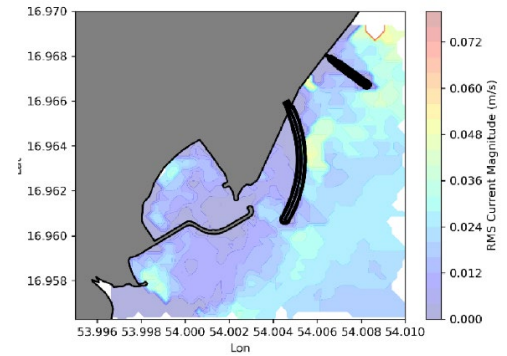
### Seamless consultancy services across

	Planning and Feasibility
	Design
	Construction Supervision
	Operations & Maintenance
	Port Planning, Operations & Logistics
	Ports & Maritime Infrastructure Development

	Terminal Landslide Development
	Intermodal Facility Planning & Development
	Dredging & Reclamation
	Marine Structures
	Geotechnical Investigation & Engineering
	Contamination, Environment & Sustainability
	Asset Management & Durability Design

## Raysut Fishing Harbour Raysut, Oman

The Ministry of Agriculture, Fisheries, Wealth and Water Resources engaged Surbana Jurong to evaluate and alleviate the sedimentation problem faced at Raysut Fishery Harbour, Oman. Surbana Jurong modelled the currents, wave and sediment transport processes using state of the art Delft3D software to inform the size and shape of the rubble mound breakwater and groyne structures. Surbana Jurong then provided detailed design of these structures including construction specifications and Issue for Construction drawings.



## Port of Townsville Channel Capacity Upgrade Townsville, Australia

SMEC collaborated with the Port of Townsville to increase the capacity of its existing shipping channel through dredging. A new rock wall bund was designed to form a 62-hectare reclamation basin for safe containment of dredged material.

SMEC's services included shipping channel widening design supported by a ship simulation to minimise capital dredging and verify safe navigation of the new shipping channel alignment, geophysical surveys, concept and detailed design of the rock wall bund, numerical and physical modelling, detailed design of the dredged material unloading facility (for hall contracting), and concept to detailed design of modifications to reduce the length of an existing breakwater to remove it from the new shipping channel footprint.

## Tuas Finger 3 Project Singapore

Located in the Tuas region on the western outskirts of Singapore, Tuas Finger 3 is encircled by 227 caisson structures, each towering to the height of a ten-storey building, collectively forming a 9.1km sea wall. The reclaimed 387 hectares of land will accommodate future large container ships, adding 21 million twenty-foot equivalent units (TEUs). The caissons are prefabricated to standard sizes in a controlled environment onsite. The scope of services by Surbana Jurong for the project consists of project management, design review and technical advice, contract administration and quantity surveying, and site supervision, all of which are contributing factors to project's success.



## South Harbour Manila, Philippines

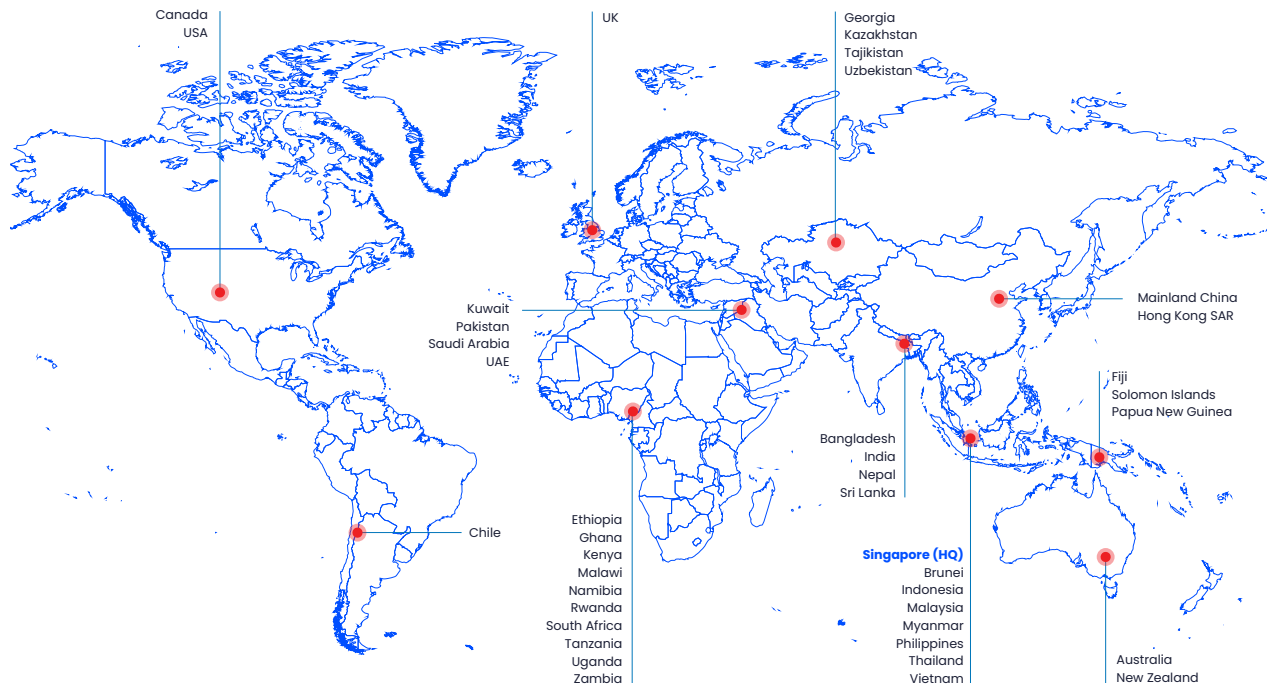
South Harbour is one of the main seaports in the Philippines. It is in the southern part of Manila, along the Manila Bay area, and serves as the primary international container terminal of the Port of Manila. The project involved designing and constructing infrastructure for a container handling plant, including paving, firefighting, electrical, drainage, and lighting for EIB main area and Block 177, aligning new infrastructure with existing infrastructure. It also includes the design and construction of a new substation to combine the capacities of two existing substations, providing power to Pier 3 and Pier 5 ship to shore cranes. SMEC acted as the independent design verifier for the design of infrastructure works and new substation ensuring works met global standards.

## Shuwaikh Port Expansion Kuwait City, Kuwait

In 2022, SMEC was awarded the Shuwaikh Port Expansion contract in Kuwait. The SMEC International Kuwait team is supported by SMEC South Africa, Subana Jurong in Singapore and local design partners Dar AMA Engineering and Singapore based Consultant Global Maritime and Ports Services (GMAPS).

A key design challenge for the scheme under the leadership of Dr Abdelaziz Abdalla Rabie, will be to deepen the navigation channel to host ships with a draught of up to 16m. Under existing port conditions, vessel entry is restricted by the water tide level meaning ships are limited to a draught of 8.5m.





## Connect with our team



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